⭐ Creating a WooCommerce Website on AWS Platform using AWS ⭐

\*\*1. Project Initialization

1. Initialize CDK Project
2. Install Required AWS CDK Libraries

\*\*2. Infrastructure Setup

This setup allows us to host static website content on S3 while serving dynamic content through API Gateway and Lambda functions, all behind a single CloudFront distribution.

1.S3 Bucket: Hosts static website content.

2.Lambda Functions: Separate product, order, and cart operations functions.

3.API Gateway: Defines REST API with resources for products, orders, and cart.

4.CloudFront Distribution:

* + Serves S3 content as the default behavior.
  + Has an additional behavior for /api/\* paths, which are routed to the API Gateway.Separate CloudFront behaviors for products, orders, and cart:
  + /api/products/\*: Uses caching optimized policy as product data might not change frequently.
  + /api/orders/\*: Caching disabled as order data is likely to be user-specific and frequently changing.
  + /api/cart/\*: Caching disabled as cart data is user-specific and changes often.

5.In this setup, Amazon DynamoDB is used to handle the storage and retrieval of data for the e-commerce application. Specifically, it will be used to store information such as:

* **ProductsFunction**: Reads from and writes to the ProductsTable to manage product-related data.
* **OrdersFunction**: Reads from and writes to the OrdersTable to manage order processing and order status updates.
* **CartFunction**: Reads from and writes to the CartTable to handle shopping cart operations.

In this setup, DynamoDB plays a crucial role in ensuring the application can efficiently manage and access data related to products, orders, and shopping carts, providing a reliable and scalable data storage solution for the e-commerce platform.